

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0003	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Sutter Maintenance Yard East Levee Sacramento River	M *	26.82						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.04		0.04	0.15%	0.01			
Trim / Thin Trees	0.15		0.15	0.56%				
Encroachments					0.68	0.24		
Animal Control	0.01		0.01	0.04%				
Slope Stability	0.01		0.01	0.04%				
Erosion / Bank Caving	0.20	0.02	0.28	1.04%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.36		0.36	1.34%				
DWR UCIP Field Study					0.34	0.17		
<i>LMA Totals:</i>	0.77	0.02	0.85	3.17% *	1.03	0.41	0.00	0.00
Unit No. 01 Sacramento River LB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
ST0003	M *	19.85						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.05%	0.01			
Trim / Thin Trees	0.15		0.15	0.76%				
Encroachments					0.68	0.24		
Animal Control	0.01		0.01	0.05%				
Slope Stability	0.01		0.01	0.05%				
Erosion / Bank Caving	0.20	0.02	0.28	1.41%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.36		0.36	1.81%				
DWR UCIP Field Study					0.30	0.17		
<i>Unit Totals:</i>	0.74	0.02	0.82	4.13% *	0.99	0.41	0.00	0.00
Unit No. 02 Colusa Bypass RB	Overall Unit Rating	Total Unit Miles						
ST0003	A	2.20						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.46%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.01			
<i>Unit Totals:</i>	0.01	0.00	0.01	0.46%	0.01	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 03 Colusa Bypass LB	Overall Unit Rating	Total Unit Miles						
ST0003	A	2.29						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.02		0.02	0.87%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.03			
<i>Unit Totals:</i>	0.02	0.00	0.02	0.87%	0.03	0.00	0.00	0.00
Unit No. 04 Moulton Bypass RB	Overall Unit Rating	Total Unit Miles						
ST0003	A	0.30						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				
Unit No. 05 Moulton Bypass LB	Overall Unit Rating	Total Unit Miles						
ST0003	A	2.19						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	19.85
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	03/11/2015 - 03/11/2015		09/16/2015 - 09/16/2015	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start		Rating **	A	Issue No.	31
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_ST0003_01_s _ 2013_31				
Action/Comments					
Inspector Comments: The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	32
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_ST0003_01_s _ 2013_32				
Action/Comments					
Inspector Comments: The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	33		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				°		°
					°		°
DWR ID	DWR_ST0003_01_s _ 2013_33						
Action/Comments							
Inspector Comments: The LMA has completed flood fight training in 2014.							

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	0.15	Rating **	U	Issue No.	3
LM End	0.20	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.194978 °	39.195022 °
				-121.937502 °	-121.938563 °
DWR ID	DWR_ST0003_01_s_2012_3				
Action/Comments					
Building					

No Photos

LM Start	1.17	Rating **	U	Issue No.	137
LM End	1.17	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.194106 °	39.194106 °
				-121.953512 °	-121.953512 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44135					
DS_ID:17319					
EP_NO: 9527					
FS_HLM: 1.111					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: 4/6/2015 Pipe leaks during times of High water.					
Slope damage still present. needs a more detailed inspection to find the leak. Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. 7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 12.5 feet below the crown. Gate valve on the waterward side. Vertical pump on the bank. (ABO No. 9527 - Butte Creek Farms). O&M manual 136, revision May 2011					
FS Date: 04/07/2015					

Photo 1 of 3 : UCIP_FA_2015_2824.jpg



Waterside view: inside CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	1.17	Rating **	U	Issue No.	137 (cont)	
LM End	1.17	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.194106 °	39.194106 °	
				-121.953512 °	-121.953512 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:44135 DS_ID:17319 EP_NO: 9527 FS_HLM: 1.111 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/6/2015 Pipe leaks during times of High water. Slope damage still present. needs a more detailed inspection to find the leak. Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. 7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 12.5 feet below the crown. Gate valve on the waterward side. Vertical pump on the bank. (ABO No. 9527 - Butte Creek Farms). O&M manual 136, revision May 2011 FS Date: 04/07/2015						

Photo 2 of 3 : UCIP_FA_2015_2825.jpg



Waterside view: CMP riser with slide gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	1.17	Rating **	U	Issue No.	137 (cont)	
LM End	1.17	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.194106 °	39.194106 °	
				-121.953512 °	-121.953512 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:44135 DS_ID:17319 EP_NO: 9527 FS_HLM: 1.111 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/6/2015 Pipe leaks during times of High water. Slope damage still present. needs a more detailed inspection to find the leak. Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. 7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 12.5 feet below the crown. Gate valve on the waterward side. Vertical pump on the bank. (ABO No. 9527 - Butte Creek Farms). O&M manual 136, revision May 2011 FS Date: 04/07/2015						

Photo 3 of 3 : UCIP_FA_2015_2826.jpg



Waterside view: overview

LM Start	1.18	Rating **	M	Issue No.	34
LM End	1.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.194105 °	39.194105 °
				121.953558 °	121.953558 °
DWR ID	DWR_ST0003_01_s_2013_34				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: The pipe has rusted apart at the toe of the levee.					

Photo 1 of 1 : FA_2015_ST0003_264_34_20151123_00025.jpg



View of erosion caused by rusted out pipe on the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	1.44	Rating **	U	Issue No.	138
LM End	1.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.192502 °	39.192502 °
				-121.958062 °	-121.958062 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44136 DS_ID:17320 EP_NO: 9543 FS_HLM: 1.38 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/6/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. 7/29/2013 Same as last inspection. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee 25.2 feet below the crown. Flap gate on the waterward end. (ABO No. 9543 -Harada). O&M manual 136, revision May 2011 FS Date: 04/07/2015					

LM Start	1.44	Rating **	U	Issue No.	138 (cont)
LM End	1.44	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_2827.jpg



Landside view: overview of levee slope

Photo 2 of 3 : UCIP_FA_2015_2828.jpg



Waterside view: water flowing from outlet pipe (pipe fully submerged)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	1.44	Rating **	U	Issue No.	138 (cont)
LM End	1.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.192502 °	39.192502 °
				-121.958062 °	-121.958062 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44136 DS_ID:17320 EP_NO: 9543 FS_HLM: 1.38 Repair Type: Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_2829.jpg



Waterside view: overview of river bank

LM Start	1.91	Rating **	U	Issue No.	139
LM End	1.91	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188164 °	39.188164 °
				-121.964721 °	-121.964721 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44138 DS_ID:17321 EP_NO: 9543 FS_HLM: 1.85 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/6/2015 Sloughing LS slope and river bank. DWR marking for leaky pipe.7/29/2013 Same as last inspection.12/30/2013 Same as last inspection.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 14-inch steel pipe encased in concrete through the levee 12.5 feet below the crown. Slant pump mounted on pile structure on berm. Slide gate in 48-inch riser on berm, walkway to pump. Discharges into concrete distribution box at landward toe. Flap gate on the landward end. (ABO No. 9543 - Harada). O&M manual 136, revision May 2011 FS Date: 04/07/2015					

Photo 1 of 3 : UCIP_FA_2015_2830.jpg



Waterside view: abandoned pump station close-up.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	1.91	Rating **	U	Issue No.	139 (cont)	
LM End	1.91	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.188164 °	39.188164 °	
				-121.964721 °	-121.964721 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:44138 DS_ID:17321 EP_NO: 9543 FS_HLM: 1.85 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/6/2015 Sloughing LS slope and river bank. DWR marking for leaky pipe.7/29/2013 Same as last inspection.12/30/2013 Same as last inspection.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 14-inch steel pipe encased in concrete through the levee 12.5 feet below the crown. Slant pump mounted on pile structure on berm. Slide gate in 48-inch riser on berm, walkway to pump. Discharges into concrete distribution box at landward toe. Flap gate on the landward end. (ABO No. 9543 - Harada). O&M manual 136, revision May 2011 FS Date: 04/07/2015						

LM Start	1.91	Rating **	U	Issue No.	139 (cont)
LM End	1.91	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_2831.jpg



Waterside view: abandoned pump station.

Photo 3 of 3 : UCIP_FA_2015_2832.jpg



Waterside view: pipe @river bank

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	2.08	Rating **	M	Issue No.	140
LM End	2.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.187717 °	39.187717 °
				-121.967712 °	-121.967712 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44139					
DS_ID:17305					
EP_NO: 9541					
FS_HLM: 2.016					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_2833.jpg



Waterside view: overview of pipe

Photo 2 of 3 : UCIP_FA_2015_2834.jpg



Waterside view: abandoned pump house

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	2.08	Rating **	M	Issue No.	140 (cont)
LM End	2.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.187717 °	39.187717 °
				-121.967712 °	-121.967712 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44139					
DS_ID:17305					
EP_NO: 9541					
FS_HLM: 2.016					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_2835.jpg



Waterside view: overview

LM Start	2.83	Rating **	M	Issue No.	51
LM End	2.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.191158 °	39.191158 °
				-121.980278 °	-121.980278 °
DWR ID	DWR_ST0003_01_f _ 2015_51				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Repair the erosion along the waterside slope.					

Photo 1 of 1 : FA_2015_ST0003_264_51_20151013_00022.jpg



View of the vehicle erosion along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	3.41	Rating **	M	Issue No.	141
LM End	3.41	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.198180 °	39.198180 °
				-121.985557 °	-121.985557 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44146 DS_ID:17312 EP_NO: 9539 FS_HLM: 3.35 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/6/2015 6in. and 18in. pipes still present in crossing and WS end still plugged with concrete.- it seems that the system was originally designed for drainage, later converted into irrigation system. - 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged)- WS opening is plugged with concrete.- probably pump is located 350 ft from levee as seen from Google Earth Map.7/29/2013 Same as last inspection.12/30/2013 Same as last inspection.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: A 30-inch by 36-inch concrete culvert drain through the levee. Gates with 2-inch flashboards on the waterward end. 18-inch PVC pipe through culvert. 13.6 ft invert below crown. (ABO No. 9539 - Locvich). O&M manual 136, revision May 2011 FS Date: 04/07/2015					

Photo 1 of 3 : UCIP_FA_2015_2861.jpg



Landside view: overview- concrete culvert and pipes

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	3.41	Rating **	M	Issue No.	141 (cont)
LM End	3.41	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.198180 °	39.198180 °
				-121.985557 °	-121.985557 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44146 DS_ID:17312 EP_NO: 9539 FS_HLM: 3.35 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/6/2015 6in. and 18in. pipes still present in crossing and WS end still plugged with concrete.- it seems that the system was originally designed for drainage, later converted into irrigation system. - 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged)- WS opening is plugged with concrete.- probably pump is located 350 ft from levee as seen from Google Earth Map.7/29/2013 Same as last inspection.12/30/2013 Same as last inspection.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: A 30-inch by 36-inch concrete culvert drain through the levee. Gates with 2-inch flashboards on the waterward end. 18-inch PVC pipe through culvert. 13.6 ft invert below crown. (ABO No. 9539 - Locvich). O&M manual 136, revision May 2011 FS Date: 04/07/2015					

Photo 2 of 3 : UCIP_FA_2015_2862.jpg



Landside view: overview of concrete culvert and pipes

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	3.41	Rating **	M	Issue No.	141 (cont)
LM End	3.41	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.198180 °	39.198180 °
				-121.985557 °	-121.985557 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44146 DS_ID:17312 EP_NO: 9539 FS_HLM: 3.35 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/6/2015 6in. and 18in. pipes still present in crossing and WS end still plugged with concrete.- it seems that the system was originally designed for drainage, later converted into irrigation system. - 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged)- WS opening is plugged with concrete.- probably pump is located 350 ft from levee as seen from Google Earth Map.7/29/2013 Same as last inspection.12/30/2013 Same as last inspection.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: A 30-inch by 36-inch concrete culvert drain through the levee. Gates with 2-inch flashboards on the waterward end. 18-inch PVC pipe through culvert. 13.6 ft invert below crown. (ABO No. 9539 - Locvich). O&M manual 136, revision May 2011 FS Date: 04/07/2015					

Photo 3 of 3 : UCIP_FA_2015_2863.jpg



Waterside view: plugged concrete structure and siphon breakers

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	3.85	Rating **	M	Issue No.	142
LM End	3.85	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.204141 °	39.204141 °
				-121.982698 °	-121.982698 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44167

DS_ID:17314

EP_NO: 9501

FS_HLM: 3.794

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 4/6/2015 Same as last inspection. Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. 7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions. 12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still silted in. 6/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not Locate pipe end on LS. Need to check for permit number for work done.

FIELD_STRUCT_DESC: 16-inch steel pipe through the levee with pump house over concrete pit on berm. No control valves visible. Discharges into concrete box at the landward toe. (ABO No. 9501 - Mayfair Farms). According to Permit 9501A, it is an existing abandoned pipe located at HLM 4.37.

O&M manual 136, revision May 2011.

FS Date: 04/07/2015

Photo 1 of 3 : UCIP_FA_2015_6633.jpg



WS shut off valve

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	3.85	Rating **	M	Issue No.	142 (cont)
LM End	3.85	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.204141 °	39.204141 °
				-121.982698 °	-121.982698 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44167 DS_ID:17314 EP_NO: 9501 FS_HLM: 3.794 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/6/2015 Same as last inspection. Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. 7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions. 12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still silted in. 6/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not Locate pipe end on LS. Need to check for permit number for work done. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee with pump house over concrete pit on berm. No control valves visible. Discharges into concrete box at the landward toe. (ABO No. 9501 - Mayfair Farms). According to Permit 9501A, it is an existing abandoned pipe located at HLM 4.37. O&M manual 136, revision May 2011. FS Date: 04/07/2015					

Photo 2 of 3 : UCIP_FA_2015_6634.jpg



WS standpipe with shut off valve inside

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	3.85	Rating **	M	Issue No.	142 (cont)
LM End	3.85	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.204141 °	39.204141 °
				-121.982698 °	-121.982698 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44167

DS_ID:17314

EP_NO: 9501

FS_HLM: 3.794

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 4/6/2015 Same as last inspection. Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. 7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions. 12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still silted in. 6/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not locate pipe end on LS. Need to check for permit number for work done.

FIELD_STRUCT_DESC: 16-inch steel pipe through the levee with pump house over concrete pit on berm. No control valves visible. Discharges into concrete box at the landward toe. (ABO No. 9501 - Mayfair Farms). According to Permit 9501A, it is an existing abandoned pipe located at HLM 4.37.

O&M manual 136, revision May 2011.

FS Date: 04/07/2015

Photo 3 of 3 : UCIP_FA_2015_6635.jpg



WS river bank

LM Start	4.26	Rating **	U	Issue No.	11
LM End	4.26	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.208935 °	39.208935 °
				-121.985310 °	-121.985310 °
DWR ID	DWR_ST0003_01_s_2012_11				

Action/Comments

Building

Photo 1 of 1 : FA_2015_ST0003_264_11_20150910_00003.jpg



View of the trailer next to the W/S toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	4.44	Rating **	M	Issue No.	143
LM End	4.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210247 °	39.210247 °
				-121.988238 °	-121.988238 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44174

DS_ID:17297

EP_NO: 9501A

FS_HLM: 4.382

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 4/6/2015 Pump disconnected and pulled up to WS toe. Not Sure if leaky valve has ever been fixed. Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. 7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. Leaky valve on LS shoulder does not appear to have been fixed. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection.

FIELD_STRUCT_DESC: Abandoned 10-inch diameter asphalt coated steel pipe through the levee 5 feet below the crown. Siphon breaker on the landward shoulder. (ABO No. 9501A - Mayfair Packing).

FS Date: 04/07/2015

Photo 1 of 3 : UCIP_FA_2015_2888.jpg



side view: pump motor on the berm

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	4.44	Rating **	M	Issue No.	143 (cont)
LM End	4.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210247 °	39.210247 °
				-121.988238 °	-121.988238 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44174

DS_ID:17297

EP_NO: 9501A

FS_HLM: 4.382

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 4/6/2015 Pump disconnected and pulled up to WS toe. Not Sure if leaky valve has ever been fixed. Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. 7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. Leaky valve on LS shoulder does not appear to have been fixed. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection.

FIELD_STRUCT_DESC: Abandoned 10-inch diameter asphalt coated steel pipe through the levee 5 feet below the crown. Siphon breaker on the landward shoulder. (ABO No. 9501A - Mayfair Packing).

FS Date: 04/07/2015

Photo 2 of 3 : UCIP_FA_2015_2889.jpg



Waterside view: overview of pump and abandoned pipe

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	4.44	Rating **	M	Issue No.	143 (cont)
LM End	4.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210247 °	39.210247 °
				-121.988238 °	-121.988238 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44174

DS_ID:17297

EP_NO: 9501A

FS_HLM: 4.382

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 4/6/2015 Pump disconnected and pulled up to WS toe. Not Sure if leaky valve has ever been fixed. Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. 7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. Leaky valve on LS shoulder does not appear to have been fixed. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection.

FIELD_STRUCT_DESC: Abandoned 10-inch diameter asphalt coated steel pipe through the levee 5 feet below the crown. Siphon breaker on the landward shoulder. (ABO No. 9501A - Mayfair Packing).

FS Date: 04/07/2015

Photo 3 of 3 : UCIP_FA_2015_2890.jpg



Crown view: transverse cracks on levee road.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	4.44	Rating **	U	Issue No.	144
LM End	4.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210257 °	39.210257 °
				-121.988250 °	-121.988250 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44175 DS_ID:17326 EP_NO: 9501 FS_HLM: 4.383 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/6/2015 Same as last inspection.Need to be properly abandoned. Transverse cracks on levee road.Also found a concrete outlet on LS. It is not clear whether this passes through the levee.7/29/2013 Same as last inspection.12/30/2013 Same as last inspection.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 16-inch steel pipe through the levee 13.9 feet below the crown. Gate valve and pump in pump house on berm. Flap gate and concrete distribution box on the landward end. (ABO No. 9501 - Mayfair Farms). O&M manual 136, revision May 2011. FS Date: 04/07/2015					

LM Start	4.44	Rating **	U	Issue No.	144 (cont)
LM End	4.44	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_2674.jpg



Waterside view: overview of pipe

Photo 2 of 3 : UCIP_FA_2015_2675.jpg



Waterside view: overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	4.44	Rating **	U	Issue No.	144 (cont)
LM End	4.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210257 °	39.210257 °
				-121.988250 °	-121.988250 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44175					
DS_ID:17326					
EP_NO: 9501					
FS_HLM: 4.383					
Repair Type: Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_2676.jpg



Crown view: cracks along pipe alignment (transverse crack)

LM Start	4.44	Rating **	U	Issue No.	145
LM End	4.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210280 °	39.210280 °
				-121.988284 °	-121.988284 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44176					
DS_ID:17484					
EP_NO: N/A					
FS_HLM: 4.385					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: 4/6/2015 Crossing appears to be an old irrigation structure and not a drain pipe. it appears abandoned as WS surge box is full of debris. Debris and deteriorated concrete. Gate valve in surge tank. 7/29/2013 Same as last inspection. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 24 inch pipe, 26 ft invert below crown, Slide Gate ws. O&M manual 136, revision May 2011.					
FS Date: 04/07/2015					

Photo 1 of 3 : UCIP_FA_2015_2677.jpg



Waterside view: concrete surge box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	4.44	Rating **	U	Issue No.	145 (cont)
LM End	4.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210280 °	39.210280 °
				-121.988284 °	-121.988284 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44176
 DS_ID:17484
 EP_NO: N/A
 FS_HLM: 4.385
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 4/6/2015 Crossing appears to be an old irrigation structure and not a drain pipe. it appears abandoned as WS surge box is full of debris. Debris and deteriorated concrete. Gate valve in surge tank. 7/29/2013 Same as last inspection. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 24 inch pipe, 26 ft invert below crown, Slide Gate ws. O&M manual 136, revision May 2011.
 FS Date: 04/07/2015

LM Start	4.44	Rating **	U	Issue No.	145 (cont)
LM End	4.44	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_2678.jpg



Waterside view: overview of concrete surge box

Photo 3 of 3 : UCIP_FA_2015_2679.jpg



Crown view: transverse crack on levee road

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	4.64	Rating **	U	Issue No.	146
LM End	4.64	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.212627 °	39.212627 °
				-121.990413 °	-121.990413 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44177					
DS_ID:17318					
EP_NO: 10935					
FS_HLM: 4.586					
Repair Type: Urgent					
Crossing Status: Found					

Photo 1 of 2 : UCIP_FA_2015_2680.jpg



Waterside view: overview of pump station

Photo 2 of 2 : UCIP_FA_2015_2681.jpg



Waterside view: overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	4.72	Rating **	U	Issue No.	12
LM End	4.72	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.213265 °	39.213265 °
				-121.991672 °	-121.991672 °
DWR ID	DWR_ST0003_01_s_2012_12				
Action/Comments					
Building					

Photo 1 of 1 : FA_2015_ST0003_264_12_20150910_00004.jpg



View of the barn on the large crown of the levee.

LM Start	4.72	Rating **	U	Issue No.	15
LM End	4.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.213271 °	39.213271 °
				-121.991676 °	-121.991676 °
DWR ID	DWR_ST0003_01_s_2013_15				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: The erosion needs to be repaired.					

Photo 1 of 1 : FA_2015_ST0003_264_15_20150910_00006.jpg



View of the erosion along the waterside slope.

LM Start	4.84	Rating **	U	Issue No.	20
LM End	4.84	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.214168 °	39.214168 °
				-121.993515 °	-121.993515 °
DWR ID	DWR_ST0003_01_s_2012_20				
Action/Comments					
Building					

Photo 1 of 1 : FA_2015_ST0003_264_20_20150910_00008.jpg



View of the building next to the L/S toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	4.85	Rating **	M	Issue No.	22
LM End	4.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.214218 °	39.214218 °
				-121.993682 °	-121.993682 °
DWR ID	DWR_ST0003_01_s _ 2012_22				
Action/Comments					
Landscaping					

No Photos

LM Start	4.85	Rating **	M	Issue No.	18
LM End	4.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.214215 °	39.214232 °
				-121.993810 °	-121.993805 °
DWR ID	DWR_ST0003_01_s _ 2012_18				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	5.03	Rating **	M	Issue No.	147
LM End	5.03	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214949 °	39.214949 °
				-121.996980 °	-121.996980 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44179

DS_ID:17287

EP_NO: 9520

FS_HLM: 4.978

Repair Type: Non-Urgent

Crossing Status: Indicator Found

UCIP Comments: 4/6/2015 Same as last inspection. Still appears abandoned. A concrete stand pipe and a CMP riser on WS. It seems abandoned and if so should be done so properly. 7/29/2013 Same as last inspection. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection.

FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee 17.0 feet below the crown. Slide gate in CMP riser on the waterward slope. Pump on bank. Concrete standpipe on waterward berm. 18-inch concrete pipe from waterward toe to standpipe. Discharges into field on landward side. (ABO No. 9520 - Arnold). O&M manual 136, revision May 2011.

FS Date: 04/07/2015

LM Start	5.03	Rating **	M	Issue No.	147 (cont)
LM End	5.03	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_2682.jpg



Waterside view: inside CMP riser

Photo 2 of 3 : UCIP_FA_2015_2683.jpg



Waterside view: CMP riser with slide gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	5.03	Rating **	M	Issue No.	147 (cont)
LM End	5.03	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214949 °	39.214949 °
				-121.996980 °	-121.996980 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44179					
DS_ID:17287					
EP_NO: 9520					
FS_HLM: 4.978					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					

Photo 3 of 3 : UCIP_FA_2015_2684.jpg



Waterside view: overview

LM Start	5.04	Rating **	U	Issue No.	148
LM End	5.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44182 DS_ID:17289 EP_NO: 2904 FS_HLM: 4.989 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/6/2015 Reapairs are in progress to this crossing. Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS. 7/29/2013 Portable tow-pump lowered down WS berm to water level and is pupming water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete. 12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe. 6/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee 18.4 feet below the crown. Slide gate in corrugate metal pipe riser on waterward shoulder, pump and concrete pump pit on the waterward bank. Concrete surge box on the waterward berm. Discharges into irrigation ditch on the opposite side of the county road. (App. No. 2904 - Arnold). Application was for an existing pumping system. O&M manual 136, revision May 2011. FS Date: 04/07/2015					

Photo 1 of 3 : UCIP_FA_2015_2842.jpg



Waterside view: CMP riser and surge box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	5.04	Rating **	U	Issue No.	148 (cont)
LM End	5.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44182

DS_ID:17289

EP_NO: 2904

FS_HLM: 4.989

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 4/6/2015 Repairs are in progress to this crossing. Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS. 7/29/2013 Portable tow-pump lowered down WS berm to water level and is pumping water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete. 12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe. 6/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee 18.4 feet below the crown. Slide gate in corrugate metal pipe riser on waterward shoulder, pump and concrete pump pit on the waterward bank. Concrete surge box on the waterward berm. Discharges into irrigation ditch on the opposite side of the county road. (App. No. 2904 - Arnold). Application was for an existing pumping system. O&M manual 136, revision May 2011. FS Date: 04/07/2015

Photo 2 of 3 : UCIP_FA_2015_2843.jpg



Waterside view: closer look at surge box

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	5.04	Rating **	U	Issue No.	148 (cont)
LM End	5.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44182

DS_ID:17289

EP_NO: 2904

FS_HLM: 4.989

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 4/6/2015 Repairs are in progress to this crossing. Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS. 7/29/2013 Portable tow-pump lowered down WS berm to water level and is pumping water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete. 12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe. 6/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee 18.4 feet below the crown. Slide gate in corrugate metal pipe riser on waterward shoulder, pump and concrete pump pit on the waterward bank. Concrete surge box on the waterward berm. Discharges into irrigation ditch on the opposite side of the county road. (App. No. 2904 - Arnold). Application was for an existing pumping system. O&M manual 136, revision May 2011. FS Date: 04/07/2015

Photo 3 of 3 : UCIP_FA_2015_2844.jpg



Waterside view: overview

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	5.15	Rating **	M	Issue No.	149
LM End	5.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.215409 °	39.215409 °
				-121.999061 °	-121.999061 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44187
 DS_ID:17291
 EP_NO: 4091
 FS_HLM: 5.095
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 4/6/2015 Same as last inspection. Crossing appears abandoned. Appears abandoned and if so should be done so properly. No Siphon breaker found on LS. 7/29/2013 Same as last inspection. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection.
 FIELD_STRUCT_DESC: Abandoned 8-inch steel pipe through the levee 4.0 feet below the crown. Pump on bank. Gate valve in concrete pipe riser on waterward shoulder. (App. No. 4091 - Halsey).
 FS Date: 04/07/2015

LM Start	5.15	Rating **	M	Issue No.	149 (cont)
LM End	5.15	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2015_2845.jpg



Waterside view: buried gate valve in concrete pipe riser

Photo 2 of 2 : UCIP_FA_2015_2846.jpg



Waterside view: concrete pipe riser with gate valve

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	5.43	Rating **	U	Issue No.	150
LM End	5.43	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.217099 °	39.217099 °
				-122.003778 °	-122.003778 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44207					
DS_ID:17293					
EP_NO: 9514					
FS_HLM: 5.378					
Repair Type: Urgent					
Crossing Status: Found					

LM Start	5.43	Rating **	U	Issue No.	150 (cont)
LM End	5.43	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_2847.jpg



Waterside view: water transfer ditch

Photo 2 of 3 : UCIP_FA_2015_2854.jpg



Waterside view: inside CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	5.43	Rating **	U	Issue No.	150 (cont)
LM End	5.43	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.217099 °	39.217099 °
				-122.003778 °	-122.003778 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44207					
DS_ID:17293					
EP_NO: 9514					
FS_HLM: 5.378					
Repair Type: Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_2855.jpg



Waterside view: CMP riser with slide gate

LM Start	6.08	Rating **	U	Issue No.	151
LM End	6.08	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.220701 °	39.220701 °
				-122.002538 °	-122.002538 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44208 DS_ID:17294 EP_NO: 9514 FS_HLM: 6.02 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/1/2015 PVC pipe still runs through crossing. WS end has been covered and blocked with sandbags to prevent water flow during high water season.36-inch CMP found instead of 30-inch CMP. LS pipe tampered.7/23/2013 8inch PVC pipe ran through 36inch CMP preventing screw gate from closing for high water season.12/18/2013 Same as last inspection. Levee inspections is working with land owner to solve the issue.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainpipe through the levee 12.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 04/07/2015					

Photo 1 of 3 : UCIP_FA_2015_2891.jpg



Waterside view: CMP riser with slide gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	6.08	Rating **	U	Issue No.	151 (cont)
LM End	6.08	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.220701 °	39.220701 °
				-122.002538 °	-122.002538 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44208 DS_ID:17294 EP_NO: 9514 FS_HLM: 6.02 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/1/2015 PVC pipe still runs through crossing. WS end has been covered and blocked with sandbags to prevent water flow during high water season. 36-inch CMP found instead of 30-inch CMP. LS pipe tampered. 7/23/2013 8inch PVC pipe ran through 36inch CMP preventing screw gate from closing for high water season. 12/18/2013 Same as last inspection. Levee inspections is working with land owner to solve the issue. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainpipe through the levee 12.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 04/07/2015					

Photo 2 of 3 : UCIP_FA_2015_2892.jpg



Waterside view: inside CMP riser

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	6.08	Rating **	U	Issue No.	151 (cont)
LM End	6.08	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.220701 °	39.220701 °
				-122.002538 °	-122.002538 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44208 DS_ID:17294 EP_NO: 9514 FS_HLM: 6.02 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/1/2015 PVC pipe still runs through crossing. WS end has been covered and blocked with sandbags to prevent water flow during high water season.36-inch CMP found instead of 30-inch CMP. LS pipe tampered.7/23/2013 8inch PVC pipe ran through 36inch CMP preventing screw gate from closing for high water season.12/18/2013 Same as last inspection. Levee inspections is working with land owner to solve the issue.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainpipe through the levee 12.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 04/07/2015					

Photo 3 of 3 : UCIP_FA_2015_2893.jpg



Waterside view: overview

LM Start	6.38	Rating **	M	Issue No.	53
LM End	6.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.223563 °	39.223563 °
				-121.999048 °	-121.999048 °
DWR ID	DWR_ST0003_01_s_2014_53				
Action/Comments					
Prunings					
Inspector Comments: Remove the prunings from the landside toe.					

Photo 1 of 2 : FA_2015_ST0003_264_53_20150910_00016.jpg



View of the prunings along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	6.38	Rating **	M	Issue No.	53 (cont)
LM End	6.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.223563 °	39.223563
				-121.999048 °	-121.999048
DWR ID	DWR_ST0003_01_s_2014_53				
Action/Comments					
Prunings					
Inspector Comments: Remove the prunings from the landside toe.					

Photo 2 of 2 : FA_2015_ST0003_264_53_20151013_00023.jpg



View of the prunings along landside toe.

LM Start	6.40	Rating **	M	Issue No.	152
LM End	6.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.223796 °	39.223796 °
				-121.999014 °	-121.999014 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44209 DS_ID:17306 EP_NO: 9530 FS_HLM: 6.344 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/1/2015 WS pipe end 3/4 blocked by soil. LS end is still unknown.Pipe outlet on WS partially buried, it needs cleaning.7/23/2013 Same as last inspection12/18/2013 Same as last inspection.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee 15.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9530 - Halsey). FS Date: 04/07/2015					

Photo 1 of 3 : UCIP_FA_2015_2894.jpg



Waterside view: inside CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	6.40	Rating **	M	Issue No.	152 (cont)
LM End	6.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.223796 °	39.223796 °
				-121.999014 °	-121.999014 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44209
 DS_ID:17306
 EP_NO: 9530
 FS_HLM: 6.344
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 4/1/2015 WS pipe end 3/4 blocked by soil. LS end is still unknown. Pipe outlet on WS partially buried, it needs cleaning. 7/23/2013 Same as last inspection 12/18/2013 Same as last inspection. 6/30/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee 15.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9530 - Halsey).
 FS Date: 04/07/2015

LM Start	6.40	Rating **	M	Issue No.	152 (cont)
LM End	6.40	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_2895.jpg



Waterside view: partially buried steel pipe

Photo 3 of 3 : UCIP_FA_2015_2896.jpg



Waterside view: CMP riser with slide gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	6.48	Rating **	M	Issue No.	21
LM End	6.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.224982 °	39.225013 °
				-121.998600 °	-121.998585 °
DWR ID	DWR_ST0003_01_s_2012_21				
Action/Comments					
Material					

Photo 1 of 1 : FA_2015_ST0003_264_21_20150910_00009.jpg



View of the material & garbage along the toe.

LM Start	6.64	Rating **	M	Issue No.	153
LM End	6.64	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.226991 °	39.226991 °
				-121.999907 °	-121.999907 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44211 DS_ID:17296 EP_NO: 9530 FS_HLM: 6.584 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/1/2015 Only cmp riser with screwgate found on WS. Screwgate stem is bent. Appears abandoned and should be verified as having been done so properly. Only CMP riser with slide gate found on WS7/23/2013 Same as last inspection12/18/2013 Same as last inspection.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee 13.5 feet below the crown. Slide gate in corrugated metal pipe riser on waterward slope. (ABO No. 9530 - Halsey). O&M manual 136, revision May 2011. FS Date: 04/07/2015					

Photo 1 of 2 : UCIP_FA_2015_2897.jpg



Waterside view: inside CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	6.64	Rating **	M	Issue No.	153 (cont)
LM End	6.64	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.226991 °	39.226991 °
				-121.999907 °	-121.999907 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44211 DS_ID:17296 EP_NO: 9530 FS_HLM: 6.584 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/1/2015 Only cmp riser with screwgate found on WS. Screwgate stem is bent. Appears abandoned and should be verified as having been done so properly. Only CMP riser with slide gate found on WS7/23/2013 Same as last inspection12/18/2013 Same as last inspection.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee 13.5 feet below the crown. Slide gate in corrugated metal pipe riser on waterward slope. (ABO No. 9530 - Halsey). O&M manual 136, revision May 2011. FS Date: 04/07/2015					

Photo 2 of 2 : UCIP_FA_2015_2898.jpg



Waterside view: CMP riser with slide gate

LM Start	6.78	Rating **	U	Issue No.	14
LM End	6.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.228535 °	39.228535 °
				-121.998330 °	-121.998330 °
DWR ID	DWR_ST0003_01_s_2015_14				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: The erosion along the waterside slope needs to be repaired.					

Photo 1 of 1 : FA_2015_ST0003_264_14_20150910_00005.jpg



View of the erosion along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	6.92	Rating **	M	Issue No.	154
LM End	6.92	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.229670 °	39.229670 °
				-121.996313 °	-121.996313 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:44216 DS_ID:17298 EP_NO: N/A FS_HLM: 6.89 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/1/2015 Unable to locate. Need to determine status of crossing. 7/23/2013 Same as last inspection. Unable to locate. 12/18/2013 Unable to locate. 6/30/2014 Unable to locate. FIELD_STRUCT_DESC: 2-1/2 inch gas line pipes through the levee 1.0 foot below the crown, from gas storage tanks on landward side. FS Date: 04/07/2015					

LM Start	7.58	Rating **	M	Issue No.	155
LM End	7.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.238153 °	39.238153 °
				-121.995024 °	-121.995024 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44224 DS_ID:17300 EP_NO: N/A FS_HLM: 7.58 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/1/2015 Only cmp riser and slide gate found on WS. Abandoned riser with slide gate on WS. Abandoned concrete surge box on WS. Verify pipe has been abandoned properly. 7/23/2013 Same as last inspection. 12/18/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch corrugated metal drainpipe through the levee 14.5 feet below the crown. Slide gate in concrete surge box on berm. Slide gate in corrugated metal pipe riser and pump on the waterward slope. O&M manual 136, revision May 2011. FS Date: 04/07/2015					

Photo 1 of 2 : UCIP_FA_2015_2899.jpg



Waterside view: CMP riser with slide gate

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	7.58	Rating **	M	Issue No.	155 (cont)	
LM End	7.58	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.238153 °	39.238153 °	
				-121.995024 °	-121.995024 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:44224 DS_ID:17300 EP_NO: N/A FS_HLM: 7.58 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/1/2015 Only cmp riser and slide gate found on WS. Abandoned riser with slide gate on WS. Abandoned concrete surge box on WS. Verify pipe has been abandoned properly. 7/23/2013 Same as last inspection. 12/18/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch corrugated metal drainpipe through the levee 14.5 feet below the crown. Slide gate in concrete surge box on berm. Slide gate in corrugated metal pipe riser and pump on the waterward slope. O&M manual 136, revision May 2011. FS Date: 04/07/2015						

Photo 2 of 2 : UCIP_FA_2015_2900.jpg



Waterside view: overview

LM Start	7.72	Rating **	M	Issue No.	156
LM End	7.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.239458 °	39.239458 °
				-121.993398 °	-121.993398 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44226 DS_ID:17301 EP_NO: 9532 FS_HLM: 7.715 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/1/2015 Silted concrete box on WS. Depression/erosion around concrete box on WS.Silted concrete box on WS. Depression/erosion around concrete box on WS.7/23/2013 Same as last inspection.12/18/2013 Same as last inspection.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 3-foot by 4-foot concrete box culvert drain through the levee 11.6 feet below the crown. Slide gate in concrete box on the waterward slope. (ABO No. 9532 - Martin). O&M manual 136, revision May 2011. FS Date: 04/07/2015					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	8.32	Rating **	M	Issue No.	157
LM End	8.32	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.246317 °	39.246317 °
				-121.998825 °	-121.998825 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44229 DS_ID:17304 EP_NO: 9529 FS_HLM: 8.323 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/1/2015 CMP riser and slidegate on WS. LS distribution box is silted in. Looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with silt. 7/23/2013 Same as last inspection. 12/18/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, slide gate CMP riser on the waterward slope. Concrete box at the landward toe. Pipe invert 12.8 ft below crown. (ABO No. 9529 - Dorwood Ranch) O&M manual 136, revision May 2011. FS Date: 04/07/2015					

LM Start	8.32	Rating **	M	Issue No.	157 (cont)
LM End	8.32	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_2685.jpg



Waterside view: overview of CMP riser

Photo 2 of 3 : UCIP_FA_2015_2686.jpg



Crown view: overview (both sides of the levee)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	8.32	Rating **	M	Issue No.	157 (cont)
LM End	8.32	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.246317 °	39.246317 °
				-121.998825 °	-121.998825 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44229					
DS_ID:17304					
EP_NO: 9529					
FS_HLM: 8.323					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_2913.jpg



Landside view: overview of concrete box

LM Start	8.52	Rating **	U	Issue No.	158
LM End	8.52	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.249125 °	39.249125 °
				-121.999031 °	-121.999031 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44243 DS_ID:17295 EP_NO: N/A FS_HLM: 8.519 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/1/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.Only a CMP riser with slide gate found on WS.7/23/2013 Same as last inspection.12/18/2013 Same as last inspection.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch irrigation and drain pipe through the levee. Slide gate in corrugated metal pipe riser on the waterward slope. Pipe invert 11.50 ft below the crown. O&M manual 136, revision May 2011. FS Date: 04/07/2015					

Photo 1 of 3 : UCIP_FA_2015_2687.jpg



Landside view: overview (no pipes)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	8.52	Rating **	U	Issue No.	158 (cont)	
LM End	8.52	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.249125 °	39.249125 °	
				-121.999031 °	-121.999031 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:44243 DS_ID:17295 EP_NO: N/A FS_HLM: 8.519 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/1/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.Only a CMP riser with slide gate found on WS.7/23/2013 Same as last inspection.12/18/2013 Same as last inspection.6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch irrigation and drain pipe through the levee. Slide gate in corrugated metal pipe riser on the waterward slope. Pipe invert 11.50 ft below the crown. O&M manual 136, revision May 2011. FS Date: 04/07/2015						

LM Start	8.52	Rating **	U	Issue No.	158 (cont)
LM End	8.52	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_2688.jpg



Waterside view: overview of CMP riser

Photo 3 of 3 : UCIP_FA_2015_4748.jpg



WS pipe end

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	8.56	Rating **	M	Issue No.	159
LM End	8.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.249678 °	39.249678 °
				-121.999021 °	-121.999021 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44245					
DS_ID:17327					
EP_NO: N/A					
FS_HLM: 8.557					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_2689.jpg



Waterside view: buried slide gate

Photo 2 of 3 : UCIP_FA_2015_2690.jpg



Waterside view: overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	8.56	Rating **	M	Issue No.	159 (cont)
LM End	8.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.249678 °	39.249678 °
				-121.999021 °	-121.999021 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44245 DS_ID:17327 EP_NO: N/A FS_HLM: 8.557 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_4414.jpg



WS pipe end

LM Start	8.70	Rating **	U	Issue No.	160
LM End	8.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.251504 °	39.251504
				-121.997879 °	-121.997879
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46580 DS_ID:17352 EP_NO: 9523 FS_HLM: 8.7 Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/28/2015 Pipe has been dug up and located along the WS levee toe. 7/23/2013 Same as last inspection. Unable to locate.12/18/2013 Unable to locate6/30/2014 Unable to locate. FIELD_STRUCT_DESC: 10-inch concrete encased steel pipe through the levee, gate valve in 42-inch corrugated metal pipe riser on the waterward slope. (ABO No. 9523 - Blackmore). Pipe invert 15.0 ft below crown. O&M manual 136, revision May 2011. FS Date: 07/08/2014					

Photo 1 of 3 : UCIP_FA_2015_6017.jpg



view from crown of levee

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	8.70	Rating **	U	Issue No.	160 (cont)
LM End	8.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.251504 °	39.251504 °
				-121.997879 °	-121.997879 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46580
 DS_ID:17352
 EP_NO: 9523
 FS_HLM: 8.7
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 8/28/2015 Pipe has been dug up and located along the WS levee toe. 7/23/2013 Same as last inspection. Unable to locate. 12/18/2013 Unable to locate 6/30/2014 Unable to locate.
 FIELD_STRUCT_DESC: 10-inch concrete encased steel pipe through the levee, gate valve in 42-inch corrugated metal pipe riser on the waterward slope. (ABO No. 9523 - Blackmore).
 Pipe invert 15.0 ft below crown.
 O&M manual 136, revision May 2011.
 FS Date: 07/08/2014

LM Start	8.70	Rating **	U	Issue No.	160 (cont)
LM End	8.70	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_6018.jpg



42inch riser on WS shoulder

Photo 3 of 3 : UCIP_FA_2015_6019.jpg



view of LS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	8.75	Rating **	U	Issue No.	161
LM End	8.75	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.252121 °	39.252121 °
				-121.997740 °	-121.997740 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46581					
DS_ID:17353					
EP_NO: N/A					
FS_HLM: 8.743					
Repair Type: Urgent					
Crossing Status: Indicator Found					

LM Start	8.75	Rating **	U	Issue No.	161 (cont)
LM End	8.75	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_2691.jpg



Waterside view: close view of slide gate

Photo 2 of 3 : UCIP_FA_2015_2692.jpg



Waterside view: slide gate on steel structure

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	8.75	Rating **	U	Issue No.	161 (cont)
LM End	8.75	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.252121 °	39.252121 °
				-121.997740 °	-121.997740 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46581					
DS_ID:17353					
EP_NO: N/A					
FS_HLM: 8.743					
Repair Type: Urgent					
Crossing Status: Indicator Found					

Photo 3 of 3 : UCIP_FA_2015_2693.jpg



Waterside view: overview of slide gate on steel structure

LM Start	8.75	Rating **	U	Issue No.	2
LM End	8.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.252260 °	39.252260 °
				-121.997721 °	-121.997721 °
DWR ID	DWR_ST0003_01_s_2012_2				
Action/Comments					
Building					

Photo 1 of 1 : FA_2015_ST0003_264_2_20150910_00001.jpg



View of the building next to the toe of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	8.78	Rating **	M	Issue No.	162
LM End	8.78	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.252642 °	39.252642 °
				-121.997612 °	-121.997612 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46582
DS_ID:17354
EP_NO: N/A
FS_HLM: 8.78
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 8/28/2015 Pipe files was mixed up with the pipe at LM8.743. Pipe is abandoned with a damaged crew gate on the WS toe of levee. 7/23/2013 Same as last inspection. Unable to locate. 12/18/2013 Unable to locate. 6/30/2014 Unable to locate.
FIELD_STRUCT_DESC: 12-inch corrugated metal drainpipe through the levee, slide gate on the waterward end.
Pipe invert 12.50 ft below crown.
O&M manual 136, revision May 2011.
FS Date: 08/28/2015

LM Start	8.78	Rating **	M	Issue No.	162 (cont)
LM End	8.78	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_6086.jpg



WS view from top of crown

Photo 2 of 3 : UCIP_FA_2015_6087.jpg



view of screwgate on WS toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	8.78	Rating **	M	Issue No.	162 (cont)
LM End	8.78	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.252642 °	39.252642 °
				-121.997612 °	-121.997612 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46582					
DS_ID:17354					
EP_NO: N/A					
FS_HLM: 8.78					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_6088.jpg



view of screwgate on WS toe

LM Start	10.27	Rating **	M	Issue No.	4
LM End	10.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.270431 °	39.270431 °
				-121.999782 °	-121.999782 °
DWR ID	DWR_ST0003_01_s_2012_4				
Action/Comments					
Building					

Photo 1 of 1 : FA_2015_ST0003_264_4_20151013_00024.jpg



View of the house and dog kennel at the landside toe.

LM Start	10.36	Rating **	M	Issue No.	5
LM End	10.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.270503 °	39.270503 °
				-122.001339 °	-122.001339 °
DWR ID	DWR_ST0003_01_s_2012_5				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: The Elderberry is partially blocking visibility.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	10.51	Rating **	M	Issue No.	163
LM End	10.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.271928 °	39.271928 °
				-122.003422 °	-122.003422 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44447
 DS_ID:17371
 EP_NO: 9517
 FS_HLM: 10.508
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 4/2/2015 Same as last inspection. Need to verify type of abandonment. Pump house not found on waterside of the levee. Looks abandoned as switch panel found without pump. 7/23/2013 Same as last inspection. 12/18/2013 Same as last inspection. 6/30/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 18-inch steel pipe through the levee, 17.1 feet below the crown. Gate valve and flap gate in concrete distribution box. Water meter in corrugated metal pipe riser at the landward toe and gate valve in corrugated metal pipe on waterside. Pipe was replaced in November 2005. (ABO No. 9517 - Griffin). O&M manual 136, revision May 2011.
 FS Date: 04/15/2015

LM Start	10.51	Rating **	M	Issue No.	163 (cont)
LM End	10.51	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2015_2778.jpg



Waterside view: CMP riser with gate valve

Photo 2 of 2 : UCIP_FA_2015_2779.jpg



Waterside view: CMP riser and abandoned service pole

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	10.69	Rating **	M	Issue No.	164
LM End	10.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.274090 °	39.274090 °
				-122.005263 °	-122.005263 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44449					
DS_ID:17350					
EP_NO: 1369					
FS_HLM: 10.688					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	10.69	Rating **	M	Issue No.	164 (cont)
LM End	10.69	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2015_2780.jpg



Waterside view: overview of exposed steel pipe

Photo 2 of 2 : UCIP_FA_2015_2781.jpg



Crown view: overview (both sides of the levee)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	11.53	Rating **	M	Issue No.	8
LM End	11.79	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.279910 °	39.283853 °
				-122.018221 °	-122.016113 °
DWR ID					
Action/Comments					
Inspector Comments: 2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011 - Site extended downstream. 2012 - Minor new erosion and tree roots are further exposed. 2015: Last observed in 2013. [2015 Site ID: SAC_152-6_L]					

Photo 1 of 1 : USACE2013A_SAC_152-6_L_8.jpg



USACE 2013 Photo #1

LM Start	11.67	Rating **	M	Issue No.	6
LM End	11.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.282064 °	39.285084 °
				-122.016517 °	-122.014815 °
DWR ID	DWR_ST0003_01_s_2012_6				
Action/Comments					
Ditch					

No Photos

LM Start	11.85	Rating **	M	Issue No.	1
LM End	11.90	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.331447 °	39.332716 °
				-122.029440 °	-122.029953 °
DWR ID					
Action/Comments					
Inspector Comments: 2004 - Slowly eroding but near vertical with no vegetation to hold it. 2005 - Erosion is close to levee toe but not into the levee section yet. 2010 - Some new toe scour. 2015: Last observed in 2013. [2015 Site ID: SAC_157-7_R]					

Photo 1 of 1 : USACE2013A_SAC_157-7_R_4.jpg



USACE 2013 Photo #1

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	11.85	Rating **	M	Issue No.	13
LM End	11.90	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.284568 °	39.285298 °
				-122.015690 °	-122.015208 °
DWR ID					
Action/Comments					
Inspector Comments: 2006 - Large rotational/mass failure in the bank with tree slump. Tough clayey toe material. 2007 - Site is between stone revetments with a pump station at the downstream end. 2010 - Erosion is into the levee toe. 2011 - Minor new erosion. 2012 - Minor new erosion. 2015: Last observed in 2013. [2015 Site ID: SAC_152-8_L]					

Photo 1 of 1 : USACE2013A_SAC_152-8_L_1.jpg



USACE 2013 Photo #1

LM Start	11.94	Rating **	M	Issue No.	7
LM End	12.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.285658 °	39.288978 °
				-122.014574 °	-122.013892 °
DWR ID	DWR_ST0003_01_s_2012_7				
Action/Comments					
Ditch					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	12.06	Rating **	M	Issue No.	165
LM End	12.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.287251 °	39.287251 °
				-122.014076 °	-122.014076 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44465 DS_ID:17365 EP_NO: 9514 FS_HLM: 12.058 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Everything looked to be in good condition. Concrete surge tank still has some silting. Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks cleaning required inside concrete surge tank on WS due to silting. 7/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition. 12/30/2013 Same as last inspection. 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.1 feet below the crown, pump house on the waterward slope. Gate valve in corrugated metal riser at waterward toe. Flap gate in concrete distribution box at the landward toe. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

Photo 1 of 3 : UCIP_FA_2015_2608.jpg



Waterside view: pump switch box, surge box & CMP riser

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	12.06	Rating **	M	Issue No.	165 (cont)
LM End	12.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.287251 °	39.287251 °
				-122.014076 °	-122.014076 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44465 DS_ID:17365 EP_NO: 9514 FS_HLM: 12.058 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Everything looked to be in good condition. Concrete surge tank still has some silting. Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks cleaning required inside concrete surge tank on WS due to silting. 7/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition. 12/30/2013 Same as last inspection. 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.1 feet below the crown, pump house on the waterward slope. Gate valve in corrugated metal riser at waterward toe. Flap gate in concrete distribution box at the landward toe. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

Photo 2 of 3 : UCIP_FA_2015_2609.jpg



Waterside view: steel pipe, pump, surge box & CMP riser

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	12.06	Rating **	M	Issue No.	165 (cont)
LM End	12.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.287251 °	39.287251 °
				-122.014076 °	-122.014076 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44465 DS_ID:17365 EP_NO: 9514 FS_HLM: 12.058 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Everything looked to be in good condition. Concrete surge tank still has some silting. Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks cleaning required inside concrete surge tank on WS due to silting. 7/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition. 12/30/2013 Same as last inspection. 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.1 feet below the crown, pump house on the waterward slope. Gate valve in corrugated metal riser at waterward toe. Flap gate in concrete distribution box at the landward toe. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

Photo 3 of 3 : UCIP_FA_2015_2610.jpg



Waterside view: overview pipe, pump, surge box & CMP riser

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	12.43	Rating **	U	Issue No.	166
LM End	12.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44466					
DS_ID:17366					
EP_NO: 9513					
FS_HLM: 12.429					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: 4/2/2015 2.5in pipe is still present and prevents the slide gate from fully closing. A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. 7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. 12/30/2013 Same as last inspection. 7/2/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee. Slide gate in concrete surge box on berm. Slant pump on riverbank. Pipe invert 16.5 ft below crown. Concrete distribution box at the landward toe. (ABO No. 9513 -Boggs). O&M manual 136, revision May 2011.					
FS Date: 04/16/2015					

Photo 1 of 3 : UCIP_FA_2015_2611.jpg



Waterside view: steel pipe, GI pipe in concrete surge box

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	12.43	Rating **	U	Issue No.	166 (cont)
LM End	12.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44466

DS_ID:17366

EP_NO: 9513

FS_HLM: 12.429

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 4/2/2015 2.5in pipe is still present and prevents the slide gate from fully closing. A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. 7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. 12/30/2013 Same as last inspection. 7/2/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season.

FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee. Slide gate in concrete surge box on berm. Slant pump on riverbank. Pipe invert 16.5 ft below crown. Concrete distribution box at the landward toe. (ABO No. 9513 -Boggs). O&M manual 136, revision May 2011.

FS Date: 04/16/2015

Photo 2 of 3 : UCIP_FA_2015_2612.jpg



Waterside view: pump station and walkway

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	12.43	Rating **	U	Issue No.	166 (cont)
LM End	12.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44466 DS_ID:17366 EP_NO: 9513 FS_HLM: 12.429 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/2/2015 2.5in pipe is still present and prevents the slide gate from fully closing. A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. 7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. 12/30/2013 Same as last inspection. 7/2/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee. Slide gate in concrete surge box on berm. Slant pump on riverbank. Pipe invert 16.5 ft below crown. Concrete distribution box at the landward toe. (ABO No. 9513 -Boggs). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

Photo 3 of 3 : UCIP_FA_2015_2613.jpg



Waterside view: overview of slanted pump and shed

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	12.56	Rating **	U	Issue No.	167
LM End	12.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.294449 °	39.294449 °
				-122.013871 °	-122.013871 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44468
 DS_ID:17367
 EP_NO: 2971
 FS_HLM: 12.559
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 4/2/2015 Pipe has as small leak during times of high water. Not sure of the cause.- Pumps taken out from the pipe (may be for repairs). Only control board found.- LS wing wall minor damage.7/23/2013 Pump motors attached to pipes and running. Think pumps were disconnected during last inspection to keep motors above water for high water season.12/19/2013 Same as last inspection.7/2/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 36-inch corrugate metal pipe through the levee, 20.0 feet below the crown. Slide gate at the waterward end. Two slant pumps on bank discharging into concrete distribution box at the waterward toe. Switch panel on the waterward side. (App. No. 2971 - Terhel). O&M manual 136, revision May 2011.
 FS Date: 04/16/2015

Photo 1 of 3 : UCIP_FA_2015_2614.jpg



Waterside view: slide gate in concrete surge box

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	12.56	Rating **	U	Issue No.	167 (cont)	
LM End	12.56	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.294449 °	39.294449 °	
				-122.013871 °	-122.013871 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:44468 DS_ID:17367 EP_NO: 2971 FS_HLM: 12.559 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Pipe has as small leak during times of high water. Not sure of the cause.- Pumps taken out from the pipe (may be for repairs). Only control board found.- LS wing wall minor damage.7/23/2013 Pump motors attached to pipes and running. Think pumps were disconnected during last inspection to keep motors above water for high water season.12/19/2013 Same as last inspection.7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugate metal pipe through the levee, 20.0 feet below the crown. Slide gate at the waterward end. Two slant pumps on bank discharging into concrete distribution box at the waterward toe. Switch panel on the waterward side. (App. No. 2971 - Terhel). O&M manual 136, revision May 2011. FS Date: 04/16/2015						

Photo 2 of 3 : UCIP_FA_2015_2615.jpg



Waterside view: concrete surge box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	12.56	Rating **	U	Issue No.	167 (cont)
LM End	12.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.294449 °	39.294449 °
				-122.013871 °	-122.013871 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44468 DS_ID:17367 EP_NO: 2971 FS_HLM: 12.559 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Pipe has as small leak during times of high water. Not sure of the cause.- Pumps taken out from the pipe (may be for repairs). Only control board found.- LS wing wall minor damage.7/23/2013 Pump motors attatched to pipes and running. Think pumps were disconnected during last inspection to keep motors above water for high water season.12/19/2013 Same as last inspection.7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugate metal pipe through the levee, 20.0 feet below the crown. Slide gate at the waterward end. Two slant pumps on bank discharging into concrete distribution box at the waterward toe. Switch panel on the waterward side. (App. No. 2971 - Terhel). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

Photo 3 of 3 : UCIP_FA_2015_2616.jpg



Waterside view: overview

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	12.96	Rating **	U	Issue No.	168
LM End	12.96	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.300140 °	39.300140 °
				-122.013599 °	-122.013599 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44473 DS_ID:17369 EP_NO: 9510 FS_HLM: 12.962 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Pipe leaks during high water. It is suspected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. 7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. 12/19/2013 Same as last inspection. 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Concrete box on the waterward side. Pump mounted on waterward bank. (ABO No. 9510 Forry). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

Photo 1 of 3 : UCIP_FA_2015_2625.jpg



Waterside view: concrete surge box

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	12.96	Rating **	U	Issue No.	168 (cont)
LM End	12.96	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.300140 °	39.300140 °
				-122.013599 °	-122.013599 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44473

DS_ID:17369

EP_NO: 9510

FS_HLM: 12.962

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 4/2/2015 Pipe leaks during high water. It is suspected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. 7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. 12/19/2013 Same as last inspection. 7/2/2014 Same as last inspection.

FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Concrete box on the waterward side. Pump mounted on waterward bank. (ABO No. 9510 Forry). O&M manual 136, revision May 2011.

FS Date: 04/16/2015

Photo 2 of 3 : UCIP_FA_2015_2626.jpg



Waterside view: overview of concrete surge box

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	12.96	Rating **	U	Issue No.	168 (cont)
LM End	12.96	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.300140 °	39.300140 °
				-122.013599 °	-122.013599 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44473 DS_ID:17369 EP_NO: 9510 FS_HLM: 12.962 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Pipe leaks during high water. It is suspected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. 7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. 12/19/2013 Same as last inspection. 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Concrete box on the waterward side. Pump mounted on waterward bank. (ABO No. 9510 Forry). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

Photo 3 of 3 : UCIP_FA_2015_2627.jpg



Waterside view: CMP riser on levee slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	13.38	Rating **	M	Issue No.	169
LM End	13.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.306065 °	39.306065 °
				-122.013112 °	-122.013112 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44474
 DS_ID:17340
 EP_NO: N/A
 FS_HLM: 13.373
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 4/2/2015 Pipe has been selected for internal camera inspection. Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned. 7/23/2013 Same as last inspection. 12/19/2013 Same as last inspection. 7/2/2014 Same as last inspection.
 FIELD_STRUCT_DESC: Abandoned 48-inch corrugated metal drainpipe through the levee, 16.5 feet below the crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Landward end of pipe on east side of River Road. O&M manual 136, revision May 2011.
 FS Date: 04/16/2015

LM Start	13.38	Rating **	M	Issue No.	169 (cont)
LM End	13.38	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_2577.jpg



Waterside view: silted concrete lined CMP outlet pipe

Photo 2 of 3 : UCIP_FA_2015_2578.jpg



Waterside view: overview of CMP riser and outlet pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	13.38	Rating **	M	Issue No.	169 (cont)
LM End	13.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.306065 °	39.306065 °
				-122.013112 °	-122.013112 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44474 DS_ID:17340 EP_NO: N/A FS_HLM: 13.373 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_2579.jpg



Waterside view: CMP riser with slide gate

LM Start	13.47	Rating **	M	Issue No.	9
LM End	13.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.307448 °	39.310231 °
				-122.013037 °	-122.012912 °
DWR ID	DWR_ST0003_01_s_2012_9				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2015_ST0003_264_9_20150910_00002.jpg



View of the erosion along the W/S toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	14.50	Rating **	M	Issue No.	170
LM End	14.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.321429 °	39.321429 °
				-122.016079 °	-122.016079 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44477
 DS_ID:17330
 EP_NO: N/A
 FS_HLM: 14.493
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 4/2/2015 Same as last inspection. Concrete box on LS silted in. If abandoned it should be done so properly. 7/23/2013 Same as last inspection. 12/19/2013 Same as last inspection. 7/2/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 14.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete distribution box at the landward side. O&M manual 136, revision May 2011.
 FS Date: 04/16/2015

LM Start	14.50	Rating **	M	Issue No.	170 (cont)
LM End	14.50	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_2617.jpg



Waterside view: CMP riser with slide gate

Photo 2 of 3 : UCIP_FA_2015_2618.jpg



Landside view: overview of distribution box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	14.50	Rating **	M	Issue No.	170 (cont)
LM End	14.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.321429 °	39.321429 °
				-122.016079 °	-122.016079 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44477					
DS_ID:17330					
EP_NO: N/A					
FS_HLM: 14.493					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_2619.jpg



Waterside view: levee mile marker

LM Start	14.56	Rating **	U	Issue No.	25
LM End	14.56	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.322254 °	39.322254 °
				-122.015985 °	-122.015985 °
DWR ID	DWR_ST0003_01_s_2013_25				
Action/Comments					
Pipe					

Photo 1 of 1 : FA_2015_ST0003_264_25_20150910_00010.jpg



View of the unauthorized pipe placed inside the drain pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	14.56	Rating **	U	Issue No.	171
LM End	14.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.322279 °	39.322279 °
				-122.015972 °	-122.015972 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44478					
DS_ID:17331					
EP_NO: 1833					
FS_HLM: 14.551					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: 4/2/2015 Leaks during high water.- Distribution box plugged with cement concrete on LS. Other concrete box plugged with concrete on WS. New steel pipe (about 16 inch diameter) sleeved through CMP pipe. It is visible inside CMP riser.7/23/2013 Same as last inspection.12/19/2013 Same as last inspection.7/2/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 42-inch corrugated metal pipe through the levee, 14.2 feet below the crown. Pump structure on the riverbank. Concrete surge box at the waterward toe. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete distribution box on the landward side across River Road. (App. No. 1833 - Westfall). O&M manual 136, revision May 2011.					
FS Date: 04/16/2015					

Photo 1 of 2 : UCIP_FA_2015_2620.jpg



Waterside view: new steel pipe sleeved through CMP pipe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	14.56	Rating **	U	Issue No.	171 (cont)
LM End	14.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.322279 °	39.322279 °
				-122.015972 °	-122.015972 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44478 DS_ID:17331 EP_NO: 1833 FS_HLM: 14.551 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Leaks during high water.- Distribution box plugged with cement concrete on LS. Other concrete box plugged with concrete on WS. New steel pipe (about 16 inch diameter) sleeved through CMP pipe. It is visible inside CMP riser.7/23/2013 Same as last inspection.12/19/2013 Same as last inspection.7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 42-inch corrugated metal pipe through the levee, 14.2 feet below the crown. Pump structure on the riverbank. Concrete surge box at the waterward toe. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete distribution box on the landward side across River Road. (App. No. 1833 - Westfall). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

Photo 2 of 2 : UCIP_FA_2015_2621.jpg



Waterside view: CMP riser with slide gate and surge box

LM Start	15.80	Rating **	M	Issue No.	172
LM End	15.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.338029 °	39.338029 °
				-122.022711 °	-122.022711 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44481 DS_ID:17334 EP_NO: 2599 FS_HLM: 15.79 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/2/2015 Unable to locate.Need to contact owner to determine status and location of this crossing. 7/23/2013 Same as last inspection. Unable to locate.12/19/2013 Unable to locate.7/2/2014 Unable to locate. FIELD_STRUCT_DESC: 2-3/8 inch unwrapped steel high pressure gas line through the levee, 2.6 feet below the crown. (App. No. 2599 - PG&E). FS Date: 04/16/2015					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	16.12	Rating **	M	Issue No.	173
LM End	16.12	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.341653 °	39.341653 °
				-122.023908 °	-122.023908 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:44482 DS_ID:17335 EP_NO: 2651 FS_HLM: 16.11 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/2/2015 Unable to locate.Need to contact owner to determine status and location of this crossing. 7/23/2013 Same as last inspection. Unable to locate.12/19/2013 Unable to locate7/2/2014 Unable to locate. FIELD_STRUCT_DESC: 2-3/8 inch unwrapped steel gas line through the levee, 2.6 feet below the crown. Waterward bank rock revetted, 1957. (Permit No. 2651 - PG&E). FS Date: 04/16/2015					

LM Start	16.21	Rating **	M	Issue No.	174
LM End	16.21	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.342905 °	39.342905 °
				-122.024215 °	-122.024215 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:44483 DS_ID:17336 EP_NO: 2651 FS_HLM: 16.2 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/2/2015 Unable to locate.Need to contact owner to determine status and location of crossing. 7/23/2013 Same as last inspection. Unable to locate.12/19/2013 Unable to locate7/2/2014 Unable to locate. FIELD_STRUCT_DESC: 2-3/8 inch unwrapped steel gas line through the levee, 2.5 feet below the crown. (Permit No. 2651 - PG&E). FS Date: 04/16/2015					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	16.43	Rating **	M	Issue No.	175
LM End	16.43	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.345635 °	39.345635 °
				-122.022915 °	-122.022915 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44485
 DS_ID:17349
 EP_NO: N/A
 FS_HLM: 16.421
 Repair Type: Non-Urgent
 Crossing Status: Indicator Found
 UCIP Comments: 4/2/2015 WS slide gate and LS distribution box are still silted over. Seems abandoned as slide gate and distribution box silted. 7/23/2013 Same as last inspection. 12/19/2013 Same as last inspection. 7/2/2014 Same as last inspection.
 FIELD_STRUCT_DESC: Abandoned 48-inch corrugated metal irrigation and drain pipe through the levee, 17.0 feet below the crown. Slide gate on the waterward end. 8-inch steel pipe sleeved through the 48-inch pipe during the summer months. Discharges into concrete distribution box at the landward toe. O&M manual 136, revision May 2011.
 FS Date: 04/16/2015

LM Start	16.43	Rating **	M	Issue No.	175 (cont)
LM End	16.43	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_2622.jpg



Waterside view: silt and debris in front of slide gate

Photo 2 of 3 : UCIP_FA_2015_2623.jpg



Waterside view: slide gate on steel structure

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	16.43	Rating **	M	Issue No.	175 (cont)
LM End	16.43	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.345635 °	39.345635
				-122.022915 °	-122.022915
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44485					
DS_ID:17349					
EP_NO: N/A					
FS_HLM: 16.421					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					

Photo 3 of 3 : UCIP_FA_2015_2624.jpg



Waterside view: overview of slide gate

LM Start	16.95	Rating **	M	Issue No.	36
LM End	16.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.347308 °	39.347308
				-122.015264 °	-122.015264
DWR ID	DWR_ST0003_01_f_2012_36				
Action/Comments					
Prunings					
Inspector Comments: Remove the pruning from the landside toe.					

Photo 1 of 1 : FA_2015_ST0003_264_36_20150910_00015.jpg



View of the brush pile along the landside toe.

LM Start	17.42	Rating **	M	Issue No.	30
LM End	17.42	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.351311 °	39.351311 °
				-122.009409 °	-122.009409 °
DWR ID	DWR_ST0003_01_s_2013_30				
Action/Comments					
Prunings					
Inspector Comments: Remove the prunings from the landside toe.					

Photo 1 of 1 : FA_2015_ST0003_264_30_20150910_00014.jpg



View of the walnut orchard stumps along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	17.43	Rating **	M	Issue No.	136
LM End	17.43	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.351447 °	39.351447 °
				-122.009385 °	-122.009385 °
DWR ID	DWR_ST0003_01_f_2013_136				
Action/Comments					
Prunings					
Inspector Comments: Remove the prunings from the landside toe.					

Photo 1 of 1 : FA_2015_ST0003_264_136_20150910_00021.jpg



View of the prunings at the toe of the levee.

LM Start	17.44	Rating **	M	Issue No.	57
LM End	17.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.351553 °	39.351553 °
				-122.009388 °	-122.009388 °
DWR ID	DWR_ST0003_01_f_2014_57				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Repair the rodent hole along the landside slope					

Photo 1 of 1 : FA_2015_ST0003_264_57_20150910_00019.jpg



View of the rodent holes on the landside slope.

LM Start	17.67	Rating **	M	Issue No.	58
LM End	17.74	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.354862 °	39.355885 °
				-122.009292 °	-122.009030 °
DWR ID	DWR_ST0003_01_f_2014_58				
Action/Comments					
Firewood					
Inspector Comments: Remove the firewood for the landside toe.					

Photo 1 of 1 : FA_2015_ST0003_264_58_20150910_00020.jpg



View of the firewood along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	17.97	Rating **	M	Issue No.	10
LM End	18.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.358956 °	39.359565 °
				-122.007492 °	-122.006219 °
DWR ID	DWR_ST0003_01_s_2012_10				
Action/Comments					
Firewood					
Inspector Comments: Remove the firewood from the landside toe.					

No Photos

LM Start	18.01	Rating **	U	Issue No.	16
LM End	18.15	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.359188 °	39.359980 °
				-122.006878 °	-122.004517 °
DWR ID	DWR_ST0003_01_s_2012_16				
Action/Comments					
Equipment					
Inspector Comments: Remove the equipment from the landside toe.					

Photo 1 of 1 : FA_2015_ST0003_264_16_20150910_00007.jpg



View of the equipment and trees next to the landside toe of the levee.

LM Start	18.01	Rating **	M	Issue No.	23
LM End	18.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.359188 °	122.006880 °
				39.359980 °	122.004520 °
DWR ID	DWR_ST0003_01_f_2015_23				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Trim trees to at least five feet to allow visibility.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	18.07	Rating **	M	Issue No.	176
LM End	18.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359675 °	39.359675 °
				-122.005879 °	-122.005879 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:44490 DS_ID:17342 EP_NO: 14217 FS_HLM: 18.1 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/2/2015 Unable to locate.Need to contact owner to determine status and location of this crossing. 7/24/2013 Same as last inspection. Unable to locate.12/19/2013 Unable to locate.7/2/2014 Unable to locate. FIELD_STRUCT_DESC: One of two pipes. Two 2-inch diameter steel coated gas pipelines through levee and within overflow area. (Permit No. 14217 - Jordan oil and Gas 10/85). Pipe depth 2.0 ft below crown. FS Date: 04/16/2015					

LM Start	18.07	Rating **	M	Issue No.	177
LM End	18.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359675 °	39.359675 °
				-122.005879 °	-122.005879 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:44489 DS_ID:17520 EP_NO: 14217 FS_HLM: 18.1 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/2/2015 Unable to locate.Need to contact owner to determine status and location of this crossing. 7/24/2013 Same as last inspection. Unable to locate.12/19/2013 Unable to locate.7/2/2014 Unable to locate. FIELD_STRUCT_DESC: Two of two pipes. Two 2-inch diameter steel coated gas pipelines through levee and within overflow area. (Permit No. 14217 - Jordan oil and Gas 10/85). Pipe depth 2.0 ft below crown. FS Date: 04/16/2015					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	18.19	Rating **	M	Issue No.	178
LM End	18.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359983 °	39.359983 °
				-122.003732 °	-122.003732 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44491 DS_ID:17343 EP_NO: 9502 FS_HLM: 18.222 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Same as last inspection. Vertical pump on bank not found as bank is not accessible. An abandoned electrical switch found on waterside. Landside distribution box is filled with debris and soil. Crossing appears abandoned and should be verified as having been done so properly. 7/24/2013 Same as last inspection. 12/19/2013 Same as last inspection. 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Vertical pump on bank. Slide gate in concrete box at the waterward toe. Discharges into concrete distribution box at the landward toe. Pole on the waterward shoulder. (ABO No. 9502 - Coffman, and Application No. 11540). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

Photo 1 of 3 : UCIP_FA_2015_2642.jpg



Waterside view: concrete gate riser

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	18.19	Rating **	M	Issue No.	178 (cont)
LM End	18.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359983 °	39.359983 °
				-122.003732 °	-122.003732 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44491 DS_ID:17343 EP_NO: 9502 FS_HLM: 18.222 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Same as last inspection. Vertical pump on bank not found as bank is not accessible. An abandoned electrical switch found on waterside. Landside distribution box is filled with debris and soil. Crossing appears abandoned and should be verified as having been done so properly. 7/24/2013 Same as last inspection. 12/19/2013 Same as last inspection. 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Vertical pump on bank. Slide gate in concrete box at the waterward toe. Discharges into concrete distribution box at the landward toe. Pole on the waterward shoulder. (ABO No. 9502 - Coffman, and Application No. 11540). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

Photo 2 of 3 : UCIP_FA_2015_2643.jpg



Waterside view: inside gate riser

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	18.19	Rating **	M	Issue No.	178 (cont)
LM End	18.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359983 °	39.359983 °
				-122.003732 °	-122.003732 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44491 DS_ID:17343 EP_NO: 9502 FS_HLM: 18.222 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Same as last inspection. Vertical pump on bank not found as bank is not accessible. An abandoned electrical switch found on waterside. Landside distribution box is filled with debris and soil. Crossing appears abandoned and should be verified as having been done so properly. 7/24/2013 Same as last inspection.12/19/2013 Same as last inspection.7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Vertical pump on bank. Slide gate in concrete box at the waterward toe. Discharges into concrete distribution box at the landward toe. Pole on the waterward shoulder. (ABO No. 9502 - Coffman, and Application No. 11540). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

Photo 3 of 3 : UCIP_FA_2015_2644.jpg



Waterside view: overview of gate riser

LM Start	18.20	Rating **	M	Issue No.	179
LM End	18.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359948 °	39.359948 °
				-122.003591 °	-122.003591 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44492					
DS_ID:17344					
EP_NO: 12930A					
FS_HLM: 18.23					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: 4/2/2015 Unable to locate.Need to contact owner to determine status and location of this crossing. 7/24/2013 Same as last inspection. Unable to locate.12/19/2013 Unable to locate7/2/2014 Unable to locate.					
FIELD_STRUCT_DESC: 3 1/2-inch steel gas pipe through levee, 2 feet below the crown. (Permit No. 12930-A - Jordan Gas Co. 9/81).					
FS Date: 04/16/2015					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	18.61	Rating **	U	Issue No.	180
LM End	18.61	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362866 °	39.362866 °
				-121.997993 °	-121.997993 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44494 DS_ID:17345 EP_NO: N/A FS_HLM: 18.653 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection.Sloughing at outlet and levee slope is damaged due to sloughing.7/24/2013 Same as last inspection.12/19/2013 Same as last inspection.7/2/2014 It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing. FIELD_STRUCT_DESC: A 36- inch corrugated metal drainpipe through the levee, 20.0 feet below the crown. Slide gate at the waterward toe. O&M manual 136, revision May 2011. FS Date: 04/16/2015					

LM Start	18.61	Rating **	U	Issue No.	180 (cont)
LM End	18.61	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2015_2645.jpg



Waterside view: outlet pipe with concrete headwall and floor apron.

Photo 2 of 2 : UCIP_FA_2015_2646.jpg



Waterside view: overview of sliding gate structure

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	18.70	Rating **	M	Issue No.	181
LM End	18.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.364067 °	39.364067 °
				-121.997792 °	-121.997792 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44495					
DS_ID:17346					
EP_NO: N/A					
FS_HLM: 18.74					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	18.70	Rating **	M	Issue No.	181 (cont)
LM End	18.70	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_2647.jpg



Waterside view: 8-inch pipe and drain gate

Photo 2 of 3 : UCIP_FA_2015_2648.jpg



Waterside view: 8-inch pipe inside 24-inch CMP

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	18.70	Rating **	M	Issue No.	181 (cont)
LM End	18.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.364067 °	39.364067 °
				-121.997792 °	-121.997792 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44495 DS_ID:17346 EP_NO: N/A FS_HLM: 18.74 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_2649.jpg



Waterside view: overview of slide gate structure

LM Start	19.55	Rating **	M	Issue No.	182
LM End	19.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.375221 °	39.375221 °
				-121.995878 °	-121.995878 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44500					
DS_ID:17487					
EP_NO: N/A					
FS_HLM: 19.615					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 4/2/2015 Same as last inspection.Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing.7/24/2013 Same as last inspection.12/19/2013 Same as last inspection.7/2/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 36 inch pipe, 21.7 ft invert below crown. O&M manual 136, revision May 2011.					
FS Date: 04/16/2015					

Photo 1 of 2 : UCIP_FA_2015_2650.jpg



Waterside view: abandoned and ruined pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	19.55	Rating **	M	Issue No.	182 (cont)
LM End	19.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.375221 °	39.375221 °
				-121.995878 °	-121.995878 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44500
DS_ID:17487
EP_NO: N/A
FS_HLM: 19.615
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/2/2015 Same as last inspection. Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing. 7/24/2013 Same as last inspection. 12/19/2013 Same as last inspection. 7/2/2014 Same as last inspection.
FIELD_STRUCT_DESC: 36 inch pipe, 21.7 ft invert below crown. O&M manual 136, revision May 2011.
FS Date: 04/16/2015

Photo 2 of 2 : UCIP_FA_2015_2651.jpg



Waterside view: overview

LM Start	19.97	Rating **	M	Issue No.	183
LM End	19.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380501 °	39.380501 °
				-121.993546 °	-121.993546 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44501
DS_ID:17370
EP_NO: 9496
FS_HLM: 20.041
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/2/2015 Same as last inspection. Only one pump found on WS. An abandoned surge box found on WS and pipe is grouted with cement. Two 16-inch steel pipe found on pump station along with two electrical conduits. A concrete distribution box found on LS with 20-inch CMP. Appears abandoned crossing. 7/24/2013 Same as last inspection. 12/19/2013 Same as last inspection. 7/2/2104 Same as last inspection.
FIELD_STRUCT_DESC: 20-inch corrugated metal pipe through the levee, 19.8 feet below the crown. Two vertical pumps on pile structure on the waterward bank. Slide gate in concrete surge box on the waterward berm. Discharges into concrete distribution box on the landward side across the county road. Switch board on platform on bank. (ABO No. 9496 Womble). O&M manual 136, revision May 2011.
FS Date: 04/16/2015

Photo 1 of 3 : UCIP_FA_2015_2652.jpg



Waterside view: abandoned pipe with cement grouting

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	19.97	Rating **	M	Issue No.	183 (cont)
LM End	19.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380501 °	39.380501 °
				-121.993546 °	-121.993546 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44501

DS_ID:17370

EP_NO: 9496

FS_HLM: 20.041

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 4/2/2015 Same as last inspection. Only one pump found on WS. An abandoned surge box found on WS and pipe is grouted with cement. Two 16-inch steel pipe found on pump station along with two electrical conduits. A concrete distribution box found on LS with 20-inch CMP. Appears abandoned crossing. 7/24/2013 Same as last inspection. 12/19/2013 Same as last inspection. 7/2/2104 Same as last inspection.

FIELD_STRUCT_DESC: 20-inch corrugated metal pipe through the levee, 19.8 feet below the crown. Two vertical pumps on pile structure on the waterward bank. Slide gate in concrete surge box on the waterward berm. Discharges into concrete distribution box on the landward side across the county road. Switch board on platform on bank. (ABO No. 9496 Womble). O&M manual 136, revision May 2011. FS Date: 04/16/2015

Photo 2 of 3 : UCIP_FA_2015_2653.jpg



Waterside view: gate riser with slide gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	19.97	Rating **	M	Issue No.	183 (cont)
LM End	19.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380501 °	39.380501 °
				-121.993546 °	-121.993546 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44501 DS_ID:17370 EP_NO: 9496 FS_HLM: 20.041 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Same as last inspection. Only one pump found on WS. An abandoned surge box found on WS and pipe is grouted with cement. Two 16-inch steel pipe found on pump station along with two electrical conduits. A concrete distribution box found on LS with 20-inch CMP. Appears abandoned crossing. 7/24/2013 Same as last inspection. 12/19/2013 Same as last inspection. 7/2/2104 Same as last inspection. FIELD_STRUCT_DESC: 20-inch corrugated metal pipe through the levee, 19.8 feet below the crown. Two vertical pumps on pile structure on the waterward bank. Slide gate in concrete surge box on the waterward berm. Discharges into concrete distribution box on the landward side across the county road. Switch board on platform on bank. (ABO No. 9496 Womble). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

Photo 3 of 3 : UCIP_FA_2015_2654.jpg



Waterside view: overview

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 02 Colusa Bypass			Right	2.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/11/2015 - 03/11/2015		09/16/2015 - 09/16/2015	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

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- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	09/16/2015 09/16/2015	Bob Duffey

LM Start	0.02	Rating **	M	Issue No.	1
LM End	0.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.232058 °	39.232058
				-121.995514 °	-121.995514
DWR ID	DWR_ST0003_02_s_2012_1				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	0.38	Rating **	A	Issue No.	3
LM End	0.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.231365 °	39.231365 °
				-121.988935 °	-121.988935 °
DWR ID	DWR_ST0003_02_f_2015_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard burned and dragged both slopes.					

Photo 1 of 1 : FA_2015_ST0003_265_3_20151013_00003.jpg



View of the levee slope with no vegetation.

LM Start	0.60	Rating **	C	Issue No.	2
LM End	0.60	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.231402 °	39.231402 °
				-121.984845 °	-121.984845 °
DWR ID	DWR_ST0003_02_s_2015_2				
Action/Comments					
Debris					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	09/16/2015 09/16/2015	Bob Duffey

LM Start	1.20	Rating **	M	Issue No.	4
LM End	1.20	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.229526 °	39.229526 °
				-121.975686 °	-121.975686 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44506					
DS_ID:17531					
EP_NO: 13534					
FS_HLM: 1.203					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					

LM Start	1.20	Rating **	M	Issue No.	4 (cont)
LM End	1.20	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_2729.jpg



Landside view: gasline indicator

Photo 2 of 3 : UCIP_FA_2015_2730.jpg



Landside view: overview gasline indicator

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	09/16/2015 09/16/2015	Bob Duffey

LM Start	1.20	Rating **	M	Issue No.	4 (cont)	
LM End	1.20	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.229526 °	39.229526 °	
				-121.975686 °	-121.975686 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:44506						
DS_ID:17531						
EP_NO: 13534						
FS_HLM: 1.203						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						

Photo 3 of 3 : UCIP_FA_2015_2731.jpg



Landside view: overview gasline indicator

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 03 Colusa Bypass			Left	2.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/11/2015 - 03/11/2015		09/16/2015 - 09/16/2015	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	09/16/2015 09/16/2015	Bob Duffey

LM Start	0.61	Rating **	C	Issue No.	1
LM End	0.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.237432 °	39.237432 °
				-121.983035 °	-121.983035 °
DWR ID	DWR_ST0003_03_s_2015_1				
Action/Comments					
Tree or limb					
Inspector Comments: Sutter Yard removed the tree from the waterside toe.					

No Photos

LM Start	0.71	Rating **	A	Issue No.	3
LM End	0.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.237768 °	39.237768 °
				-121.981307 °	-121.981307 °
DWR ID	DWR_ST0003_03_f_2015_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard burned and dragged both slopes.					

Photo 1 of 1 : FA_2015_ST0003_266_3_20151013_00005.jpg



View of the levee slopes with no vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	09/16/2015 09/16/2015	Bob Duffey

LM Start	1.03	Rating **	M	Issue No.	11
LM End	1.03	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.239306 °	39.239306 °
				-121.975797 °	-121.975797 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44509
 DS_ID:17556
 EP_NO: 15821
 FS_HLM: 1.025
 Repair Type: Non-Urgent
 Crossing Status: Indicator Found
 UCIP Comments: 4/6/2015 Same as last inspection. May need to add additional gasoline markers. 7/22/2013 Same as last inspection. 12/19/2013 Same as last inspection. 7/7/2014 Same as last inspection.
 FIELD_STRUCT_DESC: One of three gaslines. 3- 4-inch natural gas pipeline under both levees and the Colusa Bypass with a distance of 12 inches between them and two inches on either side of the trench. One gasoline indicator found on LS.
 FS Date: 04/16/2015

LM Start	1.03	Rating **	M	Issue No.	11 (cont)
LM End	1.03	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2015_2732.jpg



Landside view: gasoline indicator close view

Photo 2 of 2 : UCIP_FA_2015_2733.jpg



Landside view: gasoline indicator

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	09/16/2015 09/16/2015	Bob Duffey

LM Start	1.03	Rating **	M	Issue No.	12
LM End	1.03	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.239306 °	39.239306 °
				-121.975797 °	-121.975797 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44508					
DS_ID:17558					
EP_NO: 15821					
FS_HLM: 1.025					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					

LM Start	1.03	Rating **	M	Issue No.	12 (cont)
LM End	1.03	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2015_2736.jpg



Landside view: gasoline indicator close look

Photo 2 of 2 : UCIP_FA_2015_2737.jpg



Landside view: gasoline indicator

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	09/16/2015 09/16/2015	Bob Duffey

LM Start	1.03	Rating **	M	Issue No.	13
LM End	1.03	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.239306 °	39.239306 °
				-121.975797 °	-121.975797 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44507					
DS_ID:17557					
EP_NO: 15821					
FS_HLM: 1.025					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					

LM Start	1.03	Rating **	M	Issue No.	13 (cont)
LM End	1.03	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2015_2734.jpg



Landside view: gasoline indicator close view

Photo 2 of 2 : UCIP_FA_2015_2735.jpg



Landside view: gasoline indicator

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	09/16/2015 09/16/2015	Bob Duffey

LM Start	1.94	Rating **	M	Issue No.	10
LM End	1.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.244888 °	39.244888
				-121.965595 °	-121.965595
DWR ID	DWR_ST0003_03_s _ 2012_10				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	2.13	Rating **	M	Issue No.	2
LM End	2.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.244925 °	39.244925 °
				-121.962072 °	-121.962072 °
DWR ID	DWR_ST0003_03_s _ 2015_2				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 04 Moulton Bypass			Right	0.30
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/11/2015 - 03/11/2015		09/17/2015 - 09/17/2015	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	09/17/2015 09/17/2015	Bob Duffey

LM Start	0.08	Rating **	A	Issue No.	1
LM End	0.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.337897 °	39.337897 °
				-122.020677 °	-122.020677 °
DWR ID	DWR_ST0003_04_f_2015_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard Burned and dragged both slopes.					

Photo 1 of 1 : FA_2015_ST0003_267_1_20151013_00002.jpg



View of the levee slope with no vegetation.

LM Start	0.10	Rating **	A	Issue No.	2
LM End	0.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.337787 °	39.337787 °
				-122.020380 °	-122.020380 °
DWR ID	DWR_ST0003_04_s_2015_2				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 05 Moulton Bypass			Left	2.19
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/11/2015 - 03/11/2015		09/17/2015 - 09/17/2015	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.19	09/17/2015 09/17/2015	Bob Duffey

LM Start	0.36	Rating **	A	Issue No.	1
LM End	0.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.343158 °	39.343158 °
				-122.016377 °	-122.016377 °
DWR ID	DWR_ST0003_05_f_2015_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard Burned and dragged both slopes.					

Photo 1 of 1 : FA_2015_ST0003_268_1_20151013_00001.jpg



View of the levee slopes with no vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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